

Chapter 4 Factoring Formulas

Perfect Square Trinomials

$$a^2 + 2ab + b^2 = (a + b)^2$$

$$a^2 - 2ab + b^2 = (a - b)^2$$

The Difference of two Perfect Squares

$$a^2 - b^2 = (a + b)(a - b)$$

The Difference of Two Perfect Cubes

$$a^3 - b^3 = (a-b)(a^2 + ab + b^2)$$

The Sum of Two Perfect Cubes

$$a^3 + b^3 = (a+b)(a^2 - ab + b^2)$$